

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (currently amended) A Glyrichin selected from at least one of the following protein family:

4) An isolated Human Glyrichin (hGlyrichin) and or isolated mouse Glyrichin (mGlyrichin): protein produced by one or more of *in vitro* methods, expression in a prokaryotic system or expression in yeast having the amino acid residue sequence of the sequence SEQ ID NO: 1 in the Sequence List Listing or a protein with antibacterial activities having sequence SEQ ID NO: 1 in the Sequence List Listing with one or more of the following modifications: with 1) 1 to 20 amino acid residues of it being are deleted, inserted and/or substituted; and 2) with 1 to 20 amino acid residues being are added to the carboxyl terminal and/or amino terminal of sequence SEQ ID NO: 1;

~~2) Daniorerio Glyrichin: protein having the amino acid residue sequence of the sequence 3 in the Sequence List or protein with antibacterial activities having sequence 3 in the Sequence List with 1 to 20 amino acid residues of it being deleted, inserted and / or substituted and with 1 to 20 amino acid residues being added to the carboxyl terminal and / or amino terminal of sequence 3;~~

~~3) Anopheles gambiae Glyrichin: protein having the amino acid residue sequence of the sequence 4 in the Sequence List or protein with antibacterial activities having sequence 4 in the Sequence List with 1 to 20 amino acid residues of it being deleted, inserted and / or substituted and with 1 to 20 amino acid residues being added to the carboxyl terminal and / or amino terminal of sequence 4;~~

~~4) Drosophila melanogas Glyrichin: protein having the amino acid residue sequence of the sequence 5 in the Sequence List or protein with antibacterial activities having sequence 5 in the Sequence List with 1 to 20 amino acid residues of it being~~

~~deleted, inserted and / or substituted and with 1 to 20 amino acid residues being added to the carboxyl terminal and / or amino terminal of sequence 5;~~

~~5) Caenorhabditis elegans Glyrichin: protein having the amino acid residue sequence of the sequence 6 in the Sequence List or protein with antibacterial activities having sequence 6 in the Sequence List with 1 to 20 amino acid residues of it being deleted, inserted and / or substituted and with 1 to 20 amino acid residues being added to the carboxyl terminal and / or amino terminal of sequence 6;~~

~~6) Caenorhabditis elegans Glyrichin: protein having the amino acid residue sequence of the sequence 7 in the Sequence List or protein with antibacterial activities having sequence 7 in the Sequence List with 1 to 20 amino acid residues of it being deleted, inserted and / or substituted and with 1 to 20 amino acid residues being added to the carboxyl terminal and / or amino terminal of sequence 7;~~

~~7) Schizosaccharomyces pombe Glyrichin: protein having the amino acid residue sequence of the sequence 8 in the Sequence List or protein with antibacterial activities having sequence 8 in the Sequence List with 1 to 20 amino acid residues of it being deleted, inserted and / or substituted and with 1 to 20 amino acid residues being added to the carboxyl terminal and / or amino terminal of sequence 8;~~

~~8) Sacchromyces cerevisiae Glyrichin: protein having the amino acid residue sequence of the sequence 9 in the Sequence List or protein with antibacterial activities having sequence 9 in the Sequence List with 1 to 20 amino acid residues of it being deleted, inserted and / or substituted and with 1 to 20 amino acid residues being added to the carboxyl terminal and / or amino terminal of sequence 9;~~

~~9) Arabiopsis thaliana Glyrichin: protein having the amino acid residue sequence of the sequence 10 in the Sequence List or protein with antibacterial activities having sequence 10 in the Sequence List with 1 to 20 amino acid residues of it being deleted, inserted and / or substituted and with 1 to 20 amino acid residues being added to the carboxyl terminal and / or amino terminal of sequence 10;~~

~~10) Plasmodium falciparum 3D7 Glyrichin: protein having the amino acid residue sequence of the sequence 11 in the Sequence List or protein with antibacterial activities having sequence 11 in the Sequence List with 1 to 20 amino acid residues~~

~~of it being deleted, inserted and / or substituted and with 1 to 20 amino acid residues being added to the carboxyl terminal and / or amino terminal of sequence 11;~~
~~11) Plasmodium yoelii yoelii Glyrichin: protein having the amino acid residue sequence of the sequence 12 in the Sequence List or protein with antibacterial activities having sequence 12 in the Sequence List with 1 to 20 amino acid residues of it being deleted, inserted and / or substituted and with 1 to 20 amino acid residues being added to the carboxyl terminal and / or amino terminal of sequence 12;~~
~~12) Magnaporthe grisea Glyrichin: protein having the amino acid residue sequence of the sequence 13 in the Sequence List or protein with antibacterial activities having sequence 13 in the Sequence List with 1 to 20 amino acid residues of it being deleted, inserted and / or substituted and with 1 to 20 amino acid residues being added to the carboxyl terminal and / or amino terminal of sequence 13;~~
~~13) Neurospora crassa Glyrichin: protein having the amino acid residue sequence of the sequence 14 in the Sequence List or protein with antibacterial activities having sequence 14 in the Sequence List with 1 to 20 amino acid residues of it being deleted, inserted and / or substituted and with 1 to 20 amino acid residues being added to the carboxyl terminal and / or amino terminal of sequence 14.~~

2. (cancelled)

3. (currently amended) The Glyrichin of Claim 1, wherein ~~characterizing in that~~ the number of the amino acid residues deleted, inserted and/or substituted and added at the carboxyl terminal or amino terminal is 1 to 10.

4. (currently amended) The Glyrichin of Claim 3, wherein ~~characterizing in that~~ the number of the amino acid residues deleted, inserted and/or substituted and or added at the carboxyl terminal or amino terminal is 1 to 5.

5. (currently amended) The Glyrichin of Claim 4, wherein ~~characterizing in that~~ the number of the amino acid residues deleted, inserted and/or substituted and or added at

the carboxyl terminal or amino terminal is 1 to 3.

6. (previously presented) A isolated coding gene of the Glyrichin according to Claim 1, wherein said coding gene is in an expression vector suitable for expression in one or more of prokaryotic cells, yeast and by *in vitro* methods.

7. (currently amended) The gene of Claim 6, wherein characterizing in that said Glyrichin is hGlyrichin and its coding gene has DNA sequence in the ~~SEQ ID No:2~~ SEQ ID No: 2 of Sequence List Listing or has >90% homology with the DNA sequence in the ~~SEQ ID No:2~~ SEQ ID No: 2 of the Sequence List Listing, and the DNA sequence of amino acid residue sequence in the ~~coding Sequence List~~ SEQ ID No: 1 or nucleotide sequences which can hybridize with DNA sequence in the ~~Sequence~~ SEQ ID No: 2 of Sequence List Listing under high strict condition.

8. (cancelled).

9. (currently amended) A cell line containing genes according to Claim 6 .

10. (currently amended) ~~An engineering~~ A recombinant bacteria containing genes according to Claim 6.

11. (currently amended) A method of inhibiting bacteria growth comprising applying ~~An antibacterial use of~~ the Glyrichin according to Claim 1 ~~as well as~~ or the coding gene thereof.

12. (currently amended, withdrawn) The method use of Claim 11, wherein characterizing in that the Glyrichin and the coding gene thereof are applied in preparing drugs for prevention and/or treatment of bacterial infectious disease of human or livestock.

13. (currently amended, withdrawn) The method use of Claim 11, wherein ~~characterizing in that~~ the Glyrichin and the coding gene thereof are applied in preparing drugs for prevention and/or treatment of potentially bacterial infectious disease of different kinds of creatures.

14. (currently amended, withdrawn) The method use of Claim 11, wherein ~~characterizing in that~~ the Glyrichin and the coding gene thereof are applied in producing transgenic creatures that can defend against diseases and pests.

15. (currently amended, withdrawn) The method use of Claim 11, wherein ~~characterizing in that~~ the Glyrichin and the coding gene thereof are applied in preparing the derivatives, or antagonists as well as its ligands and antibodies of Glyrichin.

16. (currently amended) The Glyrichin of Claim 1 ~~[[2]]~~, wherein ~~characterizing in that~~ the number of the amino acid residues deleted, inserted and/or substituted and added at the carboxyl terminal or amino terminal is 1 to 10.

17. (currently amended) A coding gene of the Glyrichin according to Claim 1 ~~[[2]]~~.

18. (previously presented) An expression vector containing genes according to Claim 7.

19. (currently amended) A cell line containing genes according to Claim 7, wherein the cells are one or more of prokaryotic cells and yeast.

20. (currently amended) ~~An engineering~~ A recombinant bacteria containing genes according to Claim 7.